

## ABSTRACT

The present invention relates to a high-speed, wireless, redundant telecommunications network that provides network flexibility and greater utilization of network resources. The system and method of the present invention provides a self-healing network capable of routing PCS/cellular voice traffic within industry acceptable standards. The network design of the present invention is based upon wireless technology incorporating the ATM protocol and provides for a multi-level network wherein each level aggregates bandwidth from the previous level. The self-healing network of the present invention eliminates backhaul, delivers high bandwidth capacity and reliably supports a high quality voice broadband network in a cost efficient manner.

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